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37462 LANDO & AN	7590 05/26/201 ASTASI. LLP	0	EXAMINER	
ONE MAIN STREET, SUITE 1100			NOORISTANY, SULAIMAN	
CAMBRIDGE, MA 02142			ART UNIT	PAPER NUMBER
			2446	
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			05/26/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/743,554	TSILLAS, DEMETRIOS JAMES			
Office Action Summary	Examiner	Art Unit			
	SULAIMAN NOORISTANY	2446			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on <u>01 March 2010</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
 4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 12/22/2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	accepted or b) objected to by drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

Detailed Action

This Office Action is response to the application (10743554) filed on 03/01/2010.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114. including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 7 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/18/08 has been entered.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-7, 9-11, 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishii US patent No. US 20010021177 in view of Finn US 20040081171

Regarding claim 1, Ishii teaches wherein a method for determining a spanning tree, the method comprising acts of:

determining a root bridge identifier (e.g., a root bridge determines its value – [0059]);

identifier in a plurality of network forwarding devices (e.g., Fig. 5 "bridge A-E"), at least two of which are each coupled through a core network via at least one port and

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participate in a same spanning tree (e.g., Fig. 5 "bridge A-E"), wherein the at least one port does not run spanning tree protocol (e.g., FIG. 5A-5E is established, a spanning tree is configured such that bridge A is defined as a root bridge, and a receiving port oriented to bridge D of bridge C is defined as blocked port B – [0212]); and

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using, by the at least two of the plurality of network forwarding devices (e.g., Fig. 5A-E "Bridge D and Bridge C"), the root bridge identifier before and after reconfiguration of the same spanning tree (e.g., in Fig. 5-6 "an operation for reconfiguring a spanning tree within a short time is executed") and without having to exchange the root bridge identifier in a network message (bridge D transmits the BPDU having root ID changed to the MAC address of the bridge D itself "e.g., root ID here is replaced by MAC address of the bridge while transmitting from initial point" from the representative port D to blocked port B of bridge C – [0216; "inferior" - 0219; 0244]).

However, Ishii merely discloses the term "the root bridge identifier being used as a root bridge"

Finn teaches that it is well known to have system wherein "the root bridge identifier being used as a root bridge" (e.g., Fig. 1, unit 144 "CIST bridge ID" – [0024]) in order to make the system more efficient and less costly.

It would have been obvious to one ordinary skill in the art to modify Ishii's invention by utilizing a method for forwarding all packets into the spanning tree network in which the CIST root identifier field 116 contains the identifier of the bridge assumed to

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be the root of the common and Internal Spanning Tree, which may be in the same MSTP Region as the bridge sourcing the BPDU message 100, in another MSTP Region or in part of the bridged network that is not running MSTP. The external path cost field 118 contains a value representing the lowest cost from the bridge sourcing the BPDU 100 to the CIST root identified in field 116 without passing through any other bridge in the same region as the bridge that is sourcing the BPDU message 100, as taught by Finn [0024].

Regarding claim 2, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein the act of determining the root bridge identifier includes an act of configuring, at the at least two of the network forwarding devices, the root bridge identifier as being the root bridge in the spanning tree (e.g., in Fig. 5-6 "an operation for reconfiguring a spanning tree within a short time is executed")

Regarding claim 3, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein at the at least two of the network forwarding devices, a same root bridge path cost (e.g., a data portion of the above mentioned BPDU includes at least root ID, bridge ID, root path cost – [0020]).

Regarding claim 4, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein the act of determining a root bridge identifier further comprises an act of configuring, in a respective memory of the at least two of the plurality of network forwarding devices, an entry for the root bridge identifier (e.g., in Fig. 5-6 "an operation for reconfiguring a spanning tree within a short time is executed")

Regarding claim 5, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein, for at least one respective access port of the at least two of the plurality of network forwarding devices, a root path cost (e.g., a data portion of the above mentioned BPDU includes at least root ID, bridge ID, root path cost – [0020]).

Regarding claim 6, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein the root path costs for the at least one respective access port of the at least two of the plurality of network forwarding devices are the same value (e.g., a data portion of the above mentioned BPDU includes at least root ID, bridge ID, root path cost – [0020]).

Regarding claim 7, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein the network includes a bridged network that couples the at least two network forwarding devices, and wherein the method further comprises an act of disabling, on at least one port of the at least two network forwarding devices coupled to the network, transmission of bridge protocol data units (BPDUs) between the at least two network forwarding devices (e.g., communication is disabled between bridges A and B for any reason, communication between node "n1" connected to bridge B and node "n2" connected to bridge C is also disabled – [0081])

Regarding claim 8, Ishii and Finn together taught the method as in claim 1 above. Finn further teaches wherein using Multiprotocol Label Switching (MPLS) (MPLS – [0031]).

Regarding claim 9, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein, on at least one respective access port of the at least two of the plurality of network forwarding devices, bridge protocol data units (BPDUs) (Fig. 5-6 -- configuration bridge protocol data unit (BPDU) message).

Regarding claim 10, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein the at least two of the plurality of network forwarding devices are coupled by another network, and the method further comprises communicating the root bridge identifier in at least one BPDU transmitted on the another (Fig. 5-6 -- configuration bridge protocol data unit (BPDU) message).

Regarding claim 11, Ishii and Finn together taught the method as in claim 1 above.

Ishii further teaches wherein the network includes a bridged network that couples the at least two network forwarding devices, and wherein the method further comprises an act of disabling, on at least one logical connection of the at least two network forwarding devices coupled to the network, transmission of bridge protocol data units (BPDUs) between the at least two network forwarding devices (e.g., communication is disabled between bridges A and B for any reason, communication between node "n1" connected to bridge B and node "n2" connected to bridge C is also disabled – [0081])

Regarding claim 12, Ishii and Finn together taught the method as in claim 1 above. Finn further teaches wherein using Multiprotocol Label Switching (MPLS) (MPLS – [0031]).

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Regarding claim 13, Ishii and Finn together taught the method as in claim 1 above.

Ishii further teaches wherein on at least one respective access port of the at least two of the plurality of network forwarding devices, bridge protocol data units (BPDUs) (e.g., Fig. -5-6 -- configuration bridge protocol data unit (BPDU) message).

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Regarding claim 14, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein the at least two of the plurality of network forwarding devices are coupled by another network, and the method further comprises communicating the root bridge identifier in at least one BPDU transmitted on the another network (e.g., in Fig. 5-6 "an operation for reconfiguring a spanning tree in at least one BPDU within a short time is executed")

Regarding claim 15, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein the at least two of the plurality of network forwarding devices are located at the edge of a provider network, and wherein the further comprises an act of disabling, on at least one respective port of the at least two network forwarding devices, each of the at least one respective ports being coupled to the provider network, transmission of bridge protocol data units (BPDUs) between the at least two network forwarding devices (e.g., communication is disabled between bridges A and B for any reason, communication between node "n1" connected to bridge B and node "n2" connected to bridge C is also disabled – [0081])

Regarding claim 16, Ishii and Finn together taught the method as in claim 1 above. Ishii further teaches wherein the root bridge identifier is not assigned to any network

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forwarding device in the spanning tree (bridge D transmits the BPDU having root ID changed to the MAC address of the bridge D itself from the representative port D to blocked port B of bridge C – [0216; "inferior" - 0219; 0244]).

Response to Amendment

Applicant's arguments with respect to claim(s) 1-16 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sulaiman Nooristany whose telephone number is (571) 270-1929. The examiner can normally be reached on M-F from 9 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Pwu, can be reached on (571) 272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have guestions on access to

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the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-

9197 (toll-free).

SN 05/18/2010

/Jeffrey Pwu/

Supervisory Patent Examiner, Art Unit 2446